

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/033135 A1

(51) International Patent Classification⁷: C07K 14/475

(21) International Application Number:
PCT/KR2003/002079

(22) International Filing Date: 9 October 2003 (09.10.2003)

(25) Filing Language: Korean

(26) Publication Language: English

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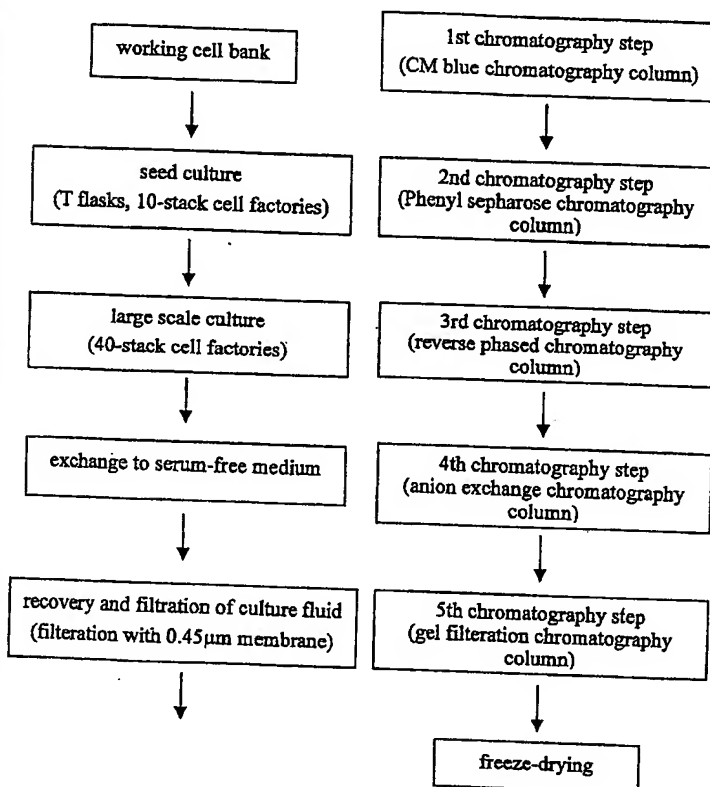
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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,

[Continued on next page]

(54) Title: PROCESS FOR PURIFYING HUMAN THROMBOPOIETIN WITH HIGH CONTENT OF SIALIC ACID



(57) Abstract: Disclosed is a process for producing a human thrombopoietin (hTPO)-containing culture fluid, comprising the step of culturing a eukaryotic cell expressing hTPO in a serum-free medium that contains a negligible amount of serum. In addition, the present invention discloses a process for purifying hTPO from a hTPO-containing biological fluid, comprising the steps of (a) subjecting the biological fluid to affinity chromatography; (b) subjecting an eluate obtained at step (a) to hydrophobic interaction chromatography; (c) subjecting an eluate obtained at step (b) to reverse phased chromatography; and (d) subjecting an eluate obtained at step (c) to anion exchange chromatography. In addition, the present invention discloses hTPO with a high sialic acid content obtained by the process which comprises the step of loading, the eluate obtained at step (c) onto an ionic exchange chromatography column and collecting hTPO with a high content of sialic acid eluted selectively from the column by a 0.15-0.3M sodium chloride gradient.

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MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(84) **Designated States (regional):** ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

Published:

— with international search report

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